

Chapter 62

Report on Global Environment

Competitiveness of Guinea

Guinea is located in West Africa. It shares its northern border with Guinea-Bissau, Senegal, and Mali, its western border with Sierra Leone, its southern border with Liberia and its southeast border with Cote d'Ivoire. It covers 245.7 thousand of square kilometers and has a population of 10.22 million. Its GDP reaches \$5.09 billion in 2011. Through the index system and evaluation model, the environment competitiveness index of Guinea ranks at 100 in 133 countries.

Score:
46.82
Rank:
100

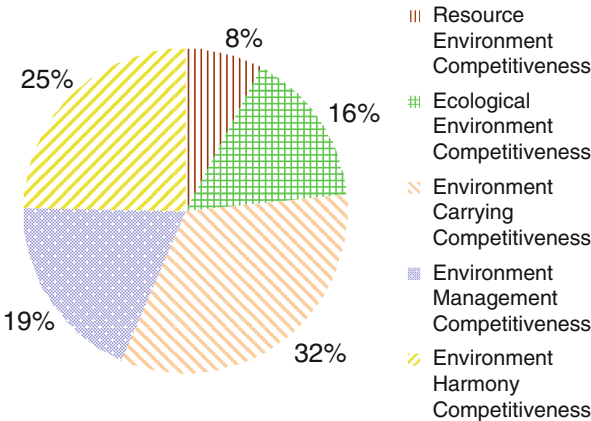


Fig. 62.1 Contribution of sub-index to GEC

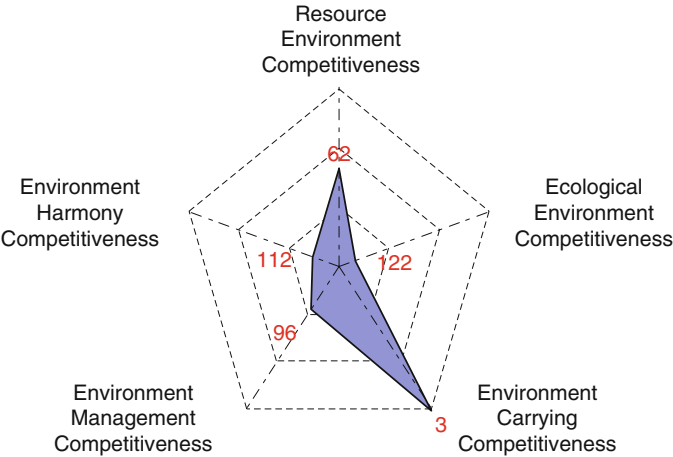


Fig. 62.2 Rank of sub-index of GEC

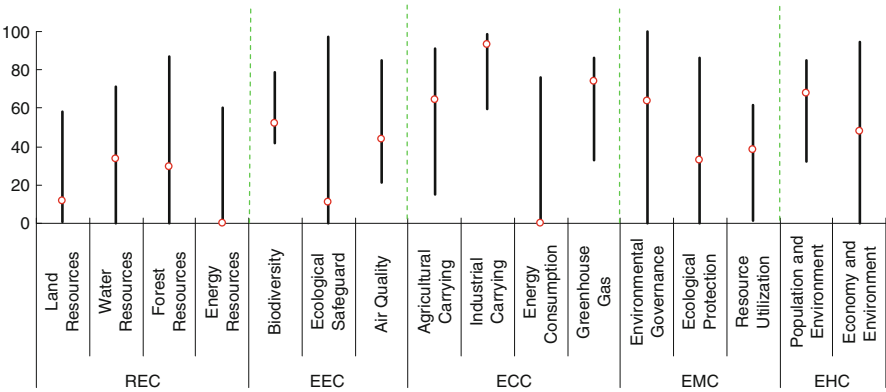


Fig. 62.3 Score and rank of the pillars of GEC

Table 62.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
1 Resource Environment Competitiveness	18.23	62	Groundwater	22.24	33
1.1 Land Resources	11.50	75	Total internal renewable water resources	46.39	22
Land area per capita	4.31	40	1.3 Forest Resources	29.20	68
Percentage of arable land to total land area	19.55	71	Growing stock in forest and other wooded land	51.53	61
Arable land per capita	13.05	40	Proportion of land area covered by forest	31.02	67
1.2 Water Resources	33.64	29	Forest area per capita	4.44	41
Surface water	9.93	34	1.4 Energy Resources	0.00	125
Annual precipitation	56.01	25			

(continued)

Table 62.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Fossil energy	0.00	64	Annual freshwater withdrawals for industry per value added of industry	96.54	77
Energy production	N/A	N/A	3.3 Energy Consumption	0.00	127
Proportion of combustible renewable and waste to total energy consumption	N/A	N/A	Energy consumption per unit of land area	N/A	N/A
Net energy imports of the energy consumption	N/A	N/A	Ratio of clean energy consumption	0.00	116
2 Ecological Environment Competitiveness	36.50	122	Elasticity of energy consumption	N/A	N/A
2.1 Biodiversity	52.14	124	Elasticity of electric power consumption	N/A	N/A
Threatened fish species	69.34	115	3.4 Greenhouse Gas	73.75	13
Threatened mammal species	88.04	101	Growth rate of CO ₂ emissions	60.62	36
Threatened plant species	98.72	79	Growth rate of Methane emissions	N/A	N/A
GEF benefits index for biodiversity	2.30	68	CO ₂ emissions per unit of land area	100.00	10
2.2 Ecological Safeguard	10.92	95	CO ₂ emissions per unit of energy consumption	N/A	N/A
Terrestrial protected areas	18.21	86	4 Environment Management Competitiveness	43.86	96
Marine protected areas	N/A	N/A	4.1 Environmental Governance	63.64	114
2.3 Air Quality	43.95	116	Agricultural chemicals regulation	42.86	80
Inhalable particles (PM10)	59.85	104	Percentage of the rural population with access to an improved water source	65.00	96
Particulate matter (PM2.5)	78.24	93	Percentage of the urban population with access to an improved water source	90.00	111
Index of indoor air pollution	0.30	126	4.2 Ecological Protection	33.02	70
Nitrogen oxides emission	67.30	81	Area of plantation and afforestation	0.12	82
Sulfur dioxide emission	41.00	2	Biome protect	39.90	86
3 Environment Carrying Competitiveness	77.55	3	Overfishing of fishing resources	70.00	17
3.1 Agricultural Carrying	64.45	92	4.3 Resource Utilization	38.53	59
Cereal yield per unit of arable land	11.70	107	Utilization rate of water resources	0.03	118
Fertilizer consumption per unit of arable land	99.95	3	Percentage of total internal renewable water resources to total water resources	85.61	26
Annual freshwater withdrawals for agriculture per unit of arable land	99.28	54			
3.2 Industrial Carrying	93.20	47			
Net exports of goods as a percentage of GDP	79.63	72			
Electric power consumption per unit of value added of industry	96.63	21			
SO ₂ emissions per unit of value added of industry	99.99	8			

(continued)

Table 62.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Percentage of agricultural land to total land area	68.50	34	SO ₂ emissions per capita	99.99	2
Percentage of fossil fuel energy consumption to total energy consumption	N/A	N/A	CO ₂ emissions per capita	99.77	8
5 Environment Harmony Competitiveness	57.93	112	Energy consumption per capita	N/A	N/A
5.1 Population and Environment	67.89	81	5.2 Economy and Environment	47.98	116
Percentage of population with access to Improved sanitation facilities	19.00	120	Land resource utilization efficiency	0.00	125
Motor vehicles per 1,000 people	99.63	5	Sulfur dioxide emissions per unit of GDP	99.68	9
Renewable internal freshwater resources per capita	26.75	16	Carbon dioxide emissions per unit of GDP	92.23	38
			Energy consumption per unit of GDP	N/A	N/A

Table 62.2 Rank distribution of the individual indicators of GEC

Sub-index	Number of the individual indicators	Rank 1–10	Rank 11–30	Rank 31–60	Rank 61–100	Rank 101–133
Resource Environment Competitiveness	14	0	2	3	6	1
Ecological Environment Competitiveness	11	0	0	0	5	6
Environment Carrying Competitiveness	15	3	2	2	2	3
Environment Management Competitiveness	10	0	1	2	5	2
Environment Harmony Competitiveness	10	4	1	1	1	3
Total	60	7	6	8	19	15

Open Access This chapter is distributed under the terms of the Creative Commons Attribution Noncommercial License, which permits any noncommercial use, distribution, and reproduction in any medium, provided the original author(s) and source are credited.